



## DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU TEMPERATURE PROJECTIONS FOR PUDUKKOTTAI



### 23.1 About Pudukkottai

Pudukkottai district was carved out of Tiruchirappalli and Thanjavur districts in January 1974. The district has an area of 4663 sq. km. with a coast line of 39 kms. The district lies between 78°25' and 79°16' of the Eastern longitude and between 9°51' and 10°44' of the Northern latitude. It is bounded by Tiruchirappalli district in the north and west, Sivaganga district in the south, Bay of Bengal in the east and Thanjavur district in the north east.<sup>1,2,3</sup>

### 23.2 Climate of Pudukkottai

The district enjoys a tropical climate. The period from April to June is generally hot and dry. The weather is pleasant during the period from November to January. The mean maximum temperature is around 33.7 °C and mean minimum temperature is 24 °C.<sup>2,3</sup>

### 23.3 Temperature Projections for Pudukkottai

The annual maximum and minimum temperature normal (1970-2000) of the district are 34.3 °C and 23.7°C respectively.<sup>4</sup> Projections of maximum temperature over Pudukkottai for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate an increase of 1.0°C, 2.0°C and 2.9°C respectively. Similarly, the projections of minimum temperature for the same periods indicate an increase of 1.2°C, 2.3°C and 3.5°C respectively.

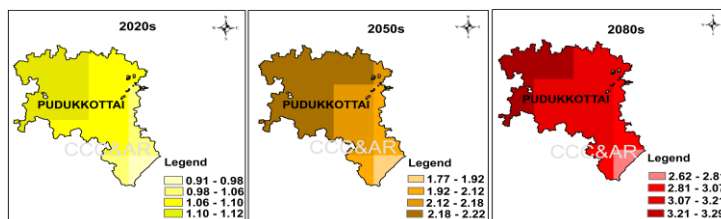


Fig 23.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

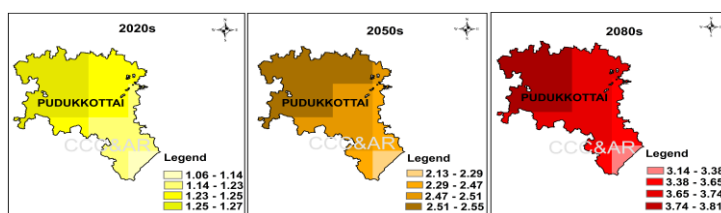


Fig 23.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 23.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.0°C	+2.0°C	+2.9°C
Minimum Temperature	+1.2°C	+2.3°C	+3.5°C

### 23.4 Key Findings

The average change of maximum and minimum temperature for Pudukkottai district are expected to increase by 2.9 °C and 3.5 °C respectively by the end of the century.

### 23.5 References

1. <http://www.pudukkottai.tn.nic.in/glance.htm>
2. ENVIS 2015. Pudukkottai District. ENVIS Centre Tamilnadu, Available at [tnenvis.nic.in/files/PUDUKOTTAI%20.pdf](http://tnenvis.nic.in/files/PUDUKOTTAI%20.pdf)
3. Central Ground Water Board 2009. District ground water brochure Pudukkottai district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at [cgwb.gov.in/District\\_Profile/TamilNadu/Pudukkottai.pdf](http://cgwb.gov.in/District_Profile/TamilNadu/Pudukkottai.pdf)
4. IMD, 2013. Temperature of Pudukkottai District. Regional Meteorological Centre, Chennai.